

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Quint, Wilhelmus  
Van Doorn, Leendert
- (ii) TITLE OF INVENTION: Probes, methods and kits for detection and  
typing of Helicobacter pylori nucleic acids in biological  
samples.
- (iii) NUMBER OF SEQUENCES: 280
- (iv) CORRESPONDENCE ADDRESS:
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  - (D) STATE: CA
  - (E) COUNTRY: USA
  - (F) ZIP: 92660
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (viii) ATTORNEY/AGENT INFORMATION:
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  - (C) REFERENCE/DOCKET NUMBER: INNOG2.001APC
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- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: EP96/870131.8
  - (B) FILING DATE: 16-OCT-1996

- (A) APPLICATION NUMBER: PCT/EP97/05614
- (B) FILING DATE: 10-OCT-1997

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GTTGATAACG CTGTCGCTTC

20

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGAGCRTTRG TCAGCATCAC

20

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCTTTAGTAG GAGCRTTRGT C

21

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGAGCGTTGA TTAGYKCCAT

20

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

GTTTTAGCAG GAGCGTTGA

19

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GCTAAYACGC CAAAYGATCC

20

(2) INFORMATION FOR SEQ ID NO: 7:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GATCCCATAC ACAGCGAGAG

20

(2) INFORMATION FOR SEQ ID NO: 8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

TTGATACGGG TAATGGTGG

19

(2) INFORMATION FOR SEQ ID NO: 9:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO



(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

GGGTAATGGT GGTTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

ACGAATTTAA GAGTGAATGG C

21

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

AGAGCGATAA CGGGCTAAAC A

21

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

TTGACCAACA ACCACAAACC GAAG

24

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

CTTCCCTTAA TTGCGAGATT CC

22

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

CCTGARACCG TTCCTACAGC

20

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GTGGATGCYC ATACRGCTWA

20

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

RTGAGCTTGT TGATATTGAC

20

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

CACAGCCACT TTCAATAACG A

21

(2) INFORMATION FOR SEQ ID NO: 18:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

CGTCAAAATA ATTCCAAGGG

20

(2) INFORMATION FOR SEQ ID NO: 19:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CAACAACCAC AAACCGAAG

19

(2) INFORMATION FOR SEQ ID NO: 20:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GATTGGTTTT TGATCAGGAT C

21

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

GATAAGAAAYG ATAGGGATAA

20

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

AATACTGATT CTTTTTGG

18

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GTGGATGCCC ATACGGCTAA

20

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GTGGATGCTC ATACAGCTWA

20

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GTGGATGCCC ATACGATCAA

20

(2) INFORMATION FOR SEQ ID NO: 26:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GCGAGCGCTC ATACGGTCAA

20

(2) INFORMATION FOR SEQ ID NO: 27:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GGATTTTTGA TCGCTTTATT

20

(2) INFORMATION FOR SEQ ID NO: 28:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GGGYTATTGG TYAGCATCAC

20

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GCTTTAGTRG GGYTATTGGT

20

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTGATACKGG TAATGGTGG

19

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)



(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

KG GTAATGGT GGTTC AACA

20

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

KG GTAATGGT GGTTC AACA

20

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

AGAGCGATAA YGKCTAAAC A

21

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

AGGGTAGAAA TGGTATCGAC A

21

(2) INFORMATION FOR SEQ ID NO: 35:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

CATGCGCCT TCTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 36:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

CATGCCGCCT TTTTCACRAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 37:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

CATGCCGCTC TTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 38:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

CATGCCGCCT TTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 39:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

AGTCGCGCYT TTTYACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 40:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCG AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG TTGGGGACTA AAACAAGCCG AAGAAGCCAA	180
TAAA	184

(2) INFORMATION FOR SEQ ID NO: 41:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

TCGCCCTCTN GTTCTCTCG CTTTAGTAGN AGCATNGTC AGCATCACAC CGCAACANAG

60

TCATGCCGCC TTTTTCACAA CCGTNATCAT TCCAGCCATT GTTGGGGGTA TNGCTACAGG	120
CACCGCTGTA GGAACGGTCT CAGGGCTTCT TAGTTGGGGA CTAAACAAG CCGAAGAAGC	180
CAATAAAACC CCAGATAAA	199

(2) INFORMATION FOR SEQ ID NO: 42:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 227 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GAATCGCCCT YTGTTTCTC TTGCTTTAGT AGGAGCATTG RTTAGYRYCA YACCGCAACA	60
AAGTCATGCC GCCTTTTTYA CRACCGTGAT CATTCCAGCC ATTGTTGGRG GTATCGCTAC	120
AGGCACTGCT GTAGGAACGG TCTCAGGGCT TCTTAGTTGG GGRCTCAAAC AAGCCGAAGA	180
AGCSAATAAA ACCCCRGATA AACCCGATAA AGTTTGCGC ATTCAAG	227

(2) INFORMATION FOR SEQ ID NO: 43:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 176 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

GCCCTTTAGT TTCTCTCGCT TTAGTGGGGT TATTGGTCAG CATCACACCA CAAAAAAGTC	60
ATGCCGCCCTT TTTCACAACC GTGATCATTC CAGCCATTGT TGGAGGTATC GCTACAGGTG	120
CTGCTGTAGG AACGGTCTCA GGGCTTCTTG GTTGGGGGCT CAAACAAGCC GAAGAA	176

(2) INFORMATION FOR SEQ ID NO: 44:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

GCCCTCTGGT TTCTCTCGCT TTAGTAGGAG CATTGGTCAG CATCACACCG CAACAAAGTC	60
ATGCCGCCTT TTTCACAACC GTGATCATTC CAGCCATTGT TGGAGGTATC GCTACAGGCG	120
CTGCTGTAGG AACGGTCTCA GGGCTTCTTA GCTGGGGGCT CAAACAAGCC GAAGAAGCCA	180
ATAAA	185

(2) INFORMATION FOR SEQ ID NO: 45:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

AATCGCCCTC TGGTTTCTCT CGCTTTAGTA GGAGCATTGG TCAGCATCAC ACCGCAACAA	60
AGTCATGCCG CCTTTTTTAC AACCGTGATC ATTCCAGCCA TTGTTGGAGG TATCGCTACA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGCTGGG GGCTCAAACA AGCCGAACAA	180
GCCAATAAAG CCCCAGACAA ACCC	204

(2) INFORMATION FOR SEQ ID NO: 46:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 207 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

GAATCGCCCT TTAGTTTCTC TTGCTTTAGT AGGAGCATTG GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTTTCA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GTATCGCTAC	120
AGGCGCTGCT GTAGGAACGG TTCAGGGCT TCTTGGCTGG GGGCTAAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCAGATA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 47:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 207 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

CAATCGCCCT CTAGTTTCTC TCGCTTTAGT AGGAGCATTG GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTTTCA CAACCGTGAT CATTCCAGCC ATTGTGGGGG GTATCGCTAC	120
AGGCGCTGCT GTAGGAACGG TCTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCGGACA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 48:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 207 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

CAATCGCCCT CTGGTTTCTC TTGCTTTAGT AGGAGCGTTA GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTTTCA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GGATCGCTAC	120
AGGCGCTGCT GTAGGAACGG TCTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCAGATA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 49:

(i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 176 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
  
(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

CCCTTTAGTT TCTCTTGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTTTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG AAGAAG	176

(2) INFORMATION FOR SEQ ID NO: 50:

(i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 187 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
  
(ii) MOLECULE TYPE: DNA (genomic)



(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

CCCTTTAGTT TCTCCTGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCYG AASAAGCSAA	180
TAAAGCC	187

(2) INFORMATION FOR SEQ ID NO: 51:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

CTTGAGTTTC TCTTGTTTGA GCAGGAGCGT TGATTAGCGC CATACCGCAA CAAAGTCATG	60
CCGCCTTTTT CACGACCGTG ATCATTCAG CCATTGTTGG GGGTATCGCT ACAGGCACCG	120
CTGTAGGAAC GGTTCAGGG CTTCTTAGCT GGGGGCTCAA ACAAGCCGAA GAAGCCAATA	180
AAACCCCAGA TAA	193

(2) INFORMATION FOR SEQ ID NO: 52:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

GCCCTTTAGT TTCTCTCGTT TTAGCAGGAG CGTTGATTAG CTCCATACCG CAACAAAGTC	60
ATGCCGCCTT TTTCACAACC GTGATCATTC CAGCCATTGT TGGGGGTATC GCTACAGGCA	120
CCGCTGTAGG AACGGTTTCA GGGCTTCTTA GCTGGGGGCT CAAACAAGCC GAACAAGCCA	180
ATAAAGCCCC GGACAA	196

(2) INFORMATION FOR SEQ ID NO: 53:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

AATCGCCCTT TAGTTTCTCT TGTTTTCAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAACAA	60
AGTCATGCCG CCTTTTTCAC GACCGTNATC ATTCCAGCCA TTGTTNNNNG TATCGCTACA	120
GGCACCGCTG T	131

(2) INFORMATION FOR SEQ ID NO: 54:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 185 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

CTACGCCCTT TAGTTTCTCT CGTTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAACAA	60
AGTCATGCCG CCTTTTTTCAC AACCGTGATC ATTCCAGCCA TTGTTGGGGG CATCGCTTCA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
GCGAA	185

(2) INFORMATION FOR SEQ ID NO: 55:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

AATCGCCCTT TAGTTTCTCT CGTTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTTTCAC AACCGTNATC ATTCCAGCCA TTGTTGGGGG TATCGCTACA	120
GGCACCCTG TAGGAACGGT CTNAGGGCTT YTTAGTTGGG GACTNWAACA AGCCGAAGAA	180
GCCAATAAAA CCCC GGATAA A	201

(2) INFORMATION FOR SEQ ID NO: 56:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

CCCTTTAGTT TCTCTCGTTT TAGCANNAGC GTTGATTAGC RCCATACCGC AAGAGAGTCA	60
---	----

TGCCGCCTTT TTTACAACCG TNATCATTC AGCCATTGTT GGGGGTATCG CTACAGGYGC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG AACAAGCCAA	180
TAAAGCC	187

(2) INFORMATION FOR SEQ ID NO: 57:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGGTATCG CTACAGGCGC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG AAGAAGCGAA	180
TAAAACC	187

(2) INFORMATION FOR SEQ ID NO: 58:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGACTC AAACAAGCCG AAGAAGCGAA	180

TAAAACC

187

(2) INFORMATION FOR SEQ ID NO: 59:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

CCCTTTAGTT TCTCTCGTTT TAGCAGNAGC GTTNATTAGT GCCATACCGC AANANAGTCA	60
TGCCGCCTTT TTCACNACCG TNATCATTC AGCCATTGTT GGGGGTATCG CCACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG TTGGGGACTN AAACAAGCCG AAGAAGCGAA	180
TAAAA	185

(2) INFORMATION FOR SEQ ID NO: 60:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 199 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

CAGGAGCGTT GATTAGTGCC ATACCGCAAG AGAGTCATGC CGCCTTTTTC ACGACCGTGA	60
TCATTCCAGC CATTGTTGGG GGTATCGCCA CAGGCACCGC TGTAGGAACG GTCTCAGGGC	120
TTCTTAGTTG GGGACTCAAA CAAGCCGAAG AAGCGAATAA AACCCAGTA TAAACCCGAT	180
AAAGTTTGGC GCATTCAAG	199

(2) INFORMATION FOR SEQ ID NO: 61:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 188 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

TTTCTCTCGT TTTAGCAGGA GCGTTGATTA GCTCCATACC GCAAGAGAGT CATGCCGCCT	60
TTTTCACAAC CGTGATCATT CCAGCCATTG TTGGGGGTAT CGCTACAGGC GCTGCTGTAG	120
GAACGGTCTC AGGGCTTCTT AGCTGGGGGC TCAAACAAGC CGAAGAAGCG AATAAAACCC	180
CAGATAAA	188

(2) INFORMATION FOR SEQ ID NO: 62:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 206 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

GAATCGCCCT TTAGTTTCTC TCGTTTTAGC AGGAGCGTTG ATTAGTGCCA TACCGCAAGA	60
GAGTCATGCC GCCTTTTCA CGACCGTGAT CATTCCAGCC ATTGTTGGGG GTATCGCCAC	120
AGGCACCGCT GTAGGAACGG TCTCAGGGCT TCTTAGTTGG GGACTCAAAC AAGCCGAAGA	180
AGCGAATAAA ACCCCAGTAT AAACCC	206

(2) INFORMATION FOR SEQ ID NO: 63:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

AATCGCCCTT TGGTTTCTCT CGTTTTAGCA GGAGCGTTGA TTAGCTCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTTTCAC AACCGTGMTC ATTCCAGCCA TTGTTGGGGG TATGGCTACA	120
GGCGCTGCTG TAGGAACGGT CTNAGGGCTT YTTAGCTGGG GGCTNWAACA AGCCGAAGAA	180
GCGAATAAAA CCCCAGATAA ACCCGA	206

(2) INFORMATION FOR SEQ ID NO: 64:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

AATCGCCCTA TTATTTCTCT CGTTTTAGCA GGAGCGTTGA TTAGCTCCAT ACCGCAAGAA	60
AGTCATGCCG CCTTTTTTCAC GACCGTGATC ATTCCAGCCA TTGTTGGGGG TATCGCCACA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGCTGGG GGCTCAAACA AGCCGAACAA	180
GCCAATAAAG CCCCAGACAA A	201

(2) INFORMATION FOR SEQ ID NO: 65:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 197 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

GCCCTTTAGT TTCTCTTGT TTAGCAGGAG CGTTGATTAG TGCCATACCG CAAGAGAGCT	60
ATGCCGCCTT TTTCACAACC GTGATCATTC CAGCCATTGT TGGGGGTATC GCTACAGGCA	120
CCGCTGTAGG AACGGTCTCA GGGCTTCTTA GTTGGGGACT CAAACAAGCC GAAGAAGCGA	180
ATAAAACCCC AGATAAA	197

(2) INFORMATION FOR SEQ ID NO: 66:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 201 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

AATCGCCCTT TAGTTTCTCT CGTTTTAGCA GGAGCGTTTA TTAGCGCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTTCAC GACCGTGATC ATTCCAGCCA TTGTTGGGGG TATCGCCACA	120
GGCACCCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
GCGAATAAAA CCCCAGATAA A	201

(2) INFORMATION FOR SEQ ID NO: 67:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)



(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

GTGGGGGTGT TAATGGGCAC CGAACTAGGG GCTAATACGC CAAACGATCC CATAACACAGC	60
GAGAGTCGCG CCTTTTTCAC AACCGTGATC ATTCCAGCCA TTGTTGGGGG TATCGCCACA	120
GGCACTGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
GCGAATAAAA CCCCCA	195

(2) INFORMATION FOR SEQ ID NO: 68:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

AGTGGGGGTG TTAATGGGCA CTGAACTAGG GGCTAACACG CCAAACGATC CCATAACACAG	60
CGAGAGTCGC GCCTTTTTTA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GTATCGCTAC	120
AGGCGCTGCT GTAGGAACGG TTTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAACA	180
AGCCAATAAA GCCCCG	196

(2) INFORMATION FOR SEQ ID NO: 69:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

TAGTGGGGGC ATTAATGAGT ACCGAAGTAG GGGCTAACAC GCCAAATGAT CCCATACACA	60
GCGAGAGTCG CGCCTTTTTT ACAACCGTGA TCATTCCAGC CATTGTTGGG GGTATCGCTA	120
CAGGCGCTGC TGTAGGAACG GTCTCAGGGC TTCTTAGTCG GGGGCTCAAA CAAGCCGAAC	180
AAGCCAATAA AGCCCC	196

(2) INFORMATION FOR SEQ ID NO: 70:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

CAATCGCCCT ATTATCTCTC TCGCTCTAGT GGGGGTGTTA ATGGGTACCG AACTAGGGGC	60
TAACACGCCA AACGATCCCA TACACAGCGA GAGTCGCGCC TTTTTTACAA CCGTGATCAT	120
TCCAGCCATT GTTGGGGGTA TCGCTACAGG CGCTGCTGTA GGAACGGTTT CAGGGCTTCT	180
TAGCTGGGGG CTCAAACAAG CCGAACAAGC CAATAAAGCC CCGGACAAAC CC	232

(2) INFORMATION FOR SEQ ID NO: 71:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

AATCGCCCTA TTATCTCTCT CGCTCTAGTG GGGGTGTTAA TGGGTACCGA ACTAGGGGCT	60
AACACGCCAA ACGATCCCAT ACACAGCGAG AGTCGCGCCT TTTTCACAAC CGTGATCATT	120
CCAGCCATTG TTGGAGGTAT CGCTACAGGT GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAGCC AATAAGCCC CGGACAAA	228

(2) INFORMATION FOR SEQ ID NO: 72:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

AATCGCCCTA TTATCTCTCT CGCTTTAGTG GGGGTRTTAA TGGGCACCGA ACTAGGGGCT	60
AACACGCCAA ACGATCCCAT ACACAGCGAG AGTCGCGCCT TTTTCACAAC CGTGATCATT	120
CCAGCCATTG TTGGGGGTAT CGCTACAGGC GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAGCC AATAAGCCC CGGATAAA	228

(2) INFORMATION FOR SEQ ID NO: 73:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

AATCGCCCTA TTATCTCTCT CGCTTTAGAG GGGGTGTTAA TAGGCACCGA ACTAGGGGCT	60
AACACGCCAA ATGATCCCAT ACACAGCGAG AGTCGCGCCT TTTTACAAC CGTTATTATT	120
CCAGCCATTG TTGGGGGTAT CGCTACAGGC GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAGCC AATAAAGCCC CGGATAAACC CGA	233

(2) INFORMATION FOR SEQ ID NO: 74:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
TGTGAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAACTG GCACTAGGTC AATCTTTTCT GGGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 75:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATTACGGC	120
TTCCACTAAT GTGGCCGTTA AAAACTTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCGT TTGGAACTG GCACTAGGTC AATCTTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 76:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

TTTAAAAGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTG GATTTTAGTG GCGTTACAGA CAAAGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCATTA AAAACTTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCGT TTAGAACTG GCACTAGGTC AATCTTTTCT GGGGGTGTCA AATTAAAAG	300

(2) INFORMATION FOR SEQ ID NO: 77:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGCTA AAAACTTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCGT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 78:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

TTTAAAAGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGCTA AAAACTTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCGT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 79:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

TTTAAAAGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACTGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAAA CAAAGTCAAT ATCAACAAGC TCATTACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTTCAA CATTAAATGAA TTGTTGGTTA AGATTAAATGG	180
GGTGAGTGTG GGGGAATACA CTTATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTGGAACTG GCACTAGGTC AATCTATTCT GCGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 80:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACGGC	120
TTCCACTAAT GTGGCCGTTA AAAACAACAA CATTAAATGAA TTGGTGGTTA AAACCAATGG	180
GATAAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACAG GCACTAGGTC AATCTTTTCT GGGGGTGTC AATTAAAAG	300

(2) INFORMATION FOR SEQ ID NO: 81:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

TTTAAAAGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATTACGGC	120
TTCCACTAAT GTAGCCGTTA AAAACTTCAA CATTAAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTGGAACTG GCACTAGGTC AATCTTTTCT GGGGGTGTCA AATTAAAAG	300

(2) INFORMATION FOR SEQ ID NO: 82:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTTCAA CATTAAATGAA TTGATTGTTA AAACCAATGG	180
GATAAGTGTG GGGGAATACA CTCATTTTAG CGAAGATATA GGAAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAACTG GCACTAGATC AATCTTTTCT GGGGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 83:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

TTTAAGAGTG GACGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GCAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT CAGCGGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACGTTA AGGAATTGGT	240
GGTTACAACC CGTGTTTACA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTCTG TGAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 84:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single .  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:

CTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATTTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTAGTG CTTTGGATTT TAGCGGCGTT ACAGATAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTCTG TTAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360

CGTTACTTTT AAAAG

375

(2) INFORMATION FOR SEQ ID NO: 85:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

TTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTACCA CTTTGGATTT CAGCGGCGTT ACAGATAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTAGT	240
GGTTACAACC CGAGTTCAGA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCCA	300
TAAGCTGCAC ATTGGTGTCTG TGAGTTTGCA AACGGGATAT AGCCCAGCCT ATTCTGGGGG	360
GCTTACTTTT AAAG	374

(2) INFORMATION FOR SEQ ID NO: 86:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

TTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
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GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGGCTA AACACTAGCT CTTTGGATTT CAGTGGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGCGTTCAGA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTCTG TTAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 87:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC GAATTTAAGA	60
GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA TAACGGGGCTA	120
AACACTAGCG CTTTGGATTT YAGCGGCGTT ACAGAYAAAG TCAATATCAA CAAGCTCACT	180
ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACATTA AGGAATTAGT GGTTACAACC	240
CGAGTTCAAA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA TAAGTCTCGC	300
ATTGGTGTCTG TTAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG CGTTACTTTT	360
AAAAG	365

(2) INFORMATION FOR SEQ ID NO: 88:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:

TTTAAGAGGG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATTTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCG YTTTGGATTT TAGCGGCGTT ACAGAYAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CRTTAAAAAC TTTGAYATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TMAGTCTCGC ATTGGTGTCTG TTAGTTTGCA AACGGGATAT AGCCCRGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 89:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:

TTTAAGCGTG GATGCTCATA CAGCTTATTT TAATGGTAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA CAAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT CAGCGGCGTT ACAGATAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAACGTGAA CATTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTCTG TGAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 90:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:

TTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAAA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAATGGTCTA AACACTAGTG CTTTGGATTT GAGCGGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACAGCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTAGT	240
GGTTACGACC CGTGTTGAGA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGAGA	300
TCAATCGCGC ATTGGTGTG TTAGTTTGCA AACTGGCTAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 91:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

CTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCTA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT TAGCGGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTGGT	240

GGTTACAACC CGAGTTCAAA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTCTG TGAGTTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 92:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

ATGACTAACG AAACCATTAA CCAACAACCA CAAAGCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAAGTTGATA ACGCTGTCTGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 93:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA 60  
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT 120  
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA 180  
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT 240  
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT 300  
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC 360  
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT 420  
TTTATGGAAA ATATCATACA ACCCCCTAT 449

(2) INFORMATION FOR SEQ ID NO: 94:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

ATGGCTAACG AAACCTATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA 60  
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT 120  
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA 180  
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT 240  
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT 300  
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC 360  
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT 420  
TTTATGGAAA ATATCATACA ACCCCCTAT 449

(2) INFORMATION FOR SEQ ID NO: 95:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTTGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTCATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180



ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAAACTTTAT CAATAAGAGC AATGATCTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCAAAAA GAGCTTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 97:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGACCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATAGA	180
ATCTCACAAT TAAGGGAGGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CGATAAGAGC AACGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 98:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATTAT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATATTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CGATAAGAGC AATGATTTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAAGTTGATA ATGCTGTCGC TTCATACGAT	120
TCTGATCAAA AACCAATCAT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATAGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CGATAAGAGC AACGATTTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAATGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

ATGACTAACG AACTATTGA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATTAATA ATCTTCAGGT AGCTTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAT GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCAAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

ATGACTAACG AACTATTGA CCAACAACCA CAACTGAAG CGGCTTTTAA CCCGCAGCAA	60
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TTTATCAATA ATCTTCAAGT GGCTTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 102:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

ATGACTAACG AAATATTAA CCAACAGCCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAGGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 103:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTTCTT AAGCTTGATA ATGCTGTTGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CGATAAGAGC AACGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTTGGG ATCAGCGTTA CCGAATTTTC	360

ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT 420  
TTCATGGAAA ATATCATACA ACCCCCTAT 449

(2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

ATGACTAACG AAATATTGA TCAACAACCA CGAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTTCTT AAAGTTGATA ACGTTGTCGC TTCATTTGAT	120
CCTAATCAAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTGC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATCTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTTCAG AAATTGGGG ATCAGCGTTA CCAAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 106:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

ATGACTAACG AAACCATTA CCAACAACCA CAAACCGAAG CGGCTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTTATT AAAGTTGATA ATGTTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAT GATAGGGATA ATAGGCAAGC TTTTGAGAAA	180
ATCTCGCAGC TAAGGGAGGA ATTCGCTAAT AAAGCGATCA AAAATCCTGC CAAAAAGAAT	240
CAGTATTTTT CAAGCTTTAT CAGTAAGAGC AGTGATTAA TCAACAAAGA CAGTCTCATT	300
GATACAGGTT CTTCCATAAA GAGCTTTCAG AAATTGGGA CTCAGCGTTA CCAAATTTTT	360
ATGAATTGGG TGTCCCATCA AAAAGATCCA TCTAAATCA ACACCCAAAA AATCCGAGGT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

ATGACTAACG AAACATTTGA TCAACAAGA ACACCAGACC AAACACAAAG CCAAACAGCT	60
TTTGATCCGC AACAATTTAT CAATAATATT CAAGTGGCTT TTCTTAAAGT TGATAACGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAGCTAAGG GAGGAATTCG CTAATAAAGC GATCAAAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTTCAGC TTTATCAGTA AGAGCAGTGA TTTAGTCAAC	300
AAAGACAGTC TCATTGATAC AGGTTCTTCC ATAAAGAGCT TTCAGAAATT TGGGACTCAG	360
CGTTACCAAA TTTTATGAA TTGGGTGTCC CATCAAAAAG ATCCATCTAA AATCAACACC	420
CAAAAAATCC AAGATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

ATGACTAATG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTCGCG AACGATTTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATAACGCT	120
GTCTCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGAGACCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAA TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CGACAAATCC GAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA CCAAACGGAT	60
TTTGTTCGCG AACGATTTAT CAATAATCTT CAAGTAGCTT TCCTTAAAGT TGATAGCGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240



CCTGCCAAAA AGAATCAGTA TTTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCT GTAGAGAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTTCAGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CGACAAATCC GAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 110:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAG CCAAACAGAT	60
TTTGTTCCGC AACGATTTAT CAATAATCTT CAAGTAGCTT TTCTTAAAGT TGATAACGCT	120
GTGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTTCAGAC TTTATCAATA AGACCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTTCAGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 111:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTC CGC AACGATTTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATGACGCT	120
GTCGCTTCAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCCACCAAAA AGAATCAGTA TTTTTCAGAC TTTATCAATA AGACCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGAGAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 112:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTC CGC AACGATTTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATAACGCT	120
GTTGCTTCAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CAACAAATCC AAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 113:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 464 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACTAAA CCAAACGGAT	60
TTTGTTC CGC AACGATTTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATAACGCT	120
GTCGCTTTAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCCACCAAAA AGAATCAGTA TTTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CGACAAATCC GAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 114:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 464 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

ATGACTAACG AAACCATTGA TCAAACAATA ACACCAGATC AAACACCAAA CCAAACGGAT	60
TTTGTTC CGC AACGATTTAT CAATAATCTT CAAGTAGCTT TTATCAAAGT TGATAACGCT	120

GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTTG AGAAAATCTC GCAATTAAGG GAAGAATACG CCAATAAAGC GATCAAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTTTAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

CCCTATTATC TCTCTGCTC TAGTGGGGGT GTTAATGGGT ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 116:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGT ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGA GG	132

(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGC ACCGAACTAG GGGCTAATAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGC ACCGAACTAG GGGCTAATAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 119:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGC ACTGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 120:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGC ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTTC ACAACYGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 121:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

CCCTATTATC TCTCTCGCTT TAGTGGGGGT RTTAATGGGC ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 122:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

CCCTATTATT TCTCTCGCTT TAGTGGGGGT GTTAATGGGC ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 123:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

CCCTATTATC TCTCTCGCTC TAGTGGGGGC ATTAATGAGT ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

CCCTATTATC TCTCTCGCTT TAGTGGGGGT ATTAATAGGC ACCGAACTAG GGGCTAATAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG TGCTTTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATAAGC ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTTT ACAACGGGGA TCATTCCAGC	120



CATTGTTGGG GG

132

(2) INFORMATION FOR SEQ ID NO: 126:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
TGCTGCCTTC TTTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 127:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
TGCTGCCTTC TTTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 128:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCTGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 129:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

CCCTCTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 130:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

CCCTCTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
 TGCCGCCTTC TTTACAACCG TGATCATTC ADCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
 TGCCGCCTTC TTTACAACCG TGATCATTC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 132:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
 TGCCGCCTTC TTTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 133:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
 TGCCGCCTTC TTTACAACCG TGATTATCCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 136:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
 TGCCGCCTTT TTTACAACCG TGATCATTC AGCCATTGTT GGGAG 105

(2) INFORMATION FOR SEQ ID NO: 137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
 TGCCGCCTTT TTTACAACCG TGATCATTC AGCCATTGTT GGAGG 105

(2) INFORMATION FOR SEQ ID NO: 138:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

CCCTCTGGTA TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTC TTACAACCG TGAATATTCC AGCMATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 140:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTC AGCMATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 141:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 142:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTC AGCHATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 143:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTC AGCYATTGTT GGAGG 105

(2) INFORMATION FOR SEQ ID NO: 144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTC AGCCATTGTT GGAGG 105

(2) INFORMATION FOR SEQ ID NO: 145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO



(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTTAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATTATTCC AGCCATTGGT TGGGG 105

(2) INFORMATION FOR SEQ ID NO: 146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCAC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATCGTT CCCCC 105

(2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

CCCTTTAGTT TCTCCTGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAAAGTCA 60  
TGCCGCCTTT TTTACAACCG TAATCATTC AGCTATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 150:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTTATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 151:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAAAGTTA 60  
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 152:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

CCCTATTATT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

CCCTTTAGTT TCTCTCGTTT TAGCAGNAGC GTTNATTAGT GCCATACCGC AANANAGTCA 60

TGCCGCCTTT TTCACNACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 155:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 156:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 157:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 158:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 105 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 159:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 105 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

CCCTTTAGTT TCTCTTGT TT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 160:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 105 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

CCCTTTAGTT TCTCTTGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCVATTGTG GGGAG 105

(2) INFORMATION FOR SEQ ID NO: 162:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 163:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

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CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA    60
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGG                      105
```

(2) INFORMATION FOR SEQ ID NO: 164:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

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CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA    60
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGG                      105
```

(2) INFORMATION FOR SEQ ID NO: 165:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO



(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGGTTAGT GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTC ARCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

CCCTTTAGTT TCTCTTGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACAACCG TAATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

CCCTTTAGTT TCTCTTGT	TTT TAGCAGGAGC GTT	GATTAGC GCCATACCGC	AAGAGAGTCA	60
TGCCGCCTTT TTCACGACCG	TAATCATTCC AGCCATTGTT	GGGGG		105

(2) INFORMATION FOR SEQ ID NO: 169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

CCCTTTAGTT TCTCTCGTTT	TAGCAGGAGC GTT	GATTAGC GCCATACCGC	AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG	TNATCATTCC AGCCATTGTT	GGGGG		105

(2) INFORMATION FOR SEQ ID NO: 170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACACCCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 173:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 174:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 175:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

CCCTTTAGTT TCTCTCGTTT TAGCANNAGC GTTGATTAGC RCCATACCGC AAGAGAGTCA 60

TGCCGCCTTT TTTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:

CCCTTTAGTT TCTCTTGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACGACCG TNATCATTC AGCCATTGTT NNNNG 105

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

CCCTCTGGTT TCTCTGGTTT TAGCAGGAGC GTTGATTAGC ATCACACCAC AACAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGAGG 105

(2) INFORMATION FOR SEQ ID NO: 181:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG 105

(2) INFORMATION FOR SEQ ID NO: 182:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

CCCTTTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC GTTAGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

CCCTCTAGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

CCCTTTAGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

CCCTCTNGTT TCTCTCGCTT TAGTAGNAGC ATTNGTCAGC ATCACACCGC AACANAGTCA 60

TGCCGCCTTT TTCACAACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC GTTGGTCAGC ATCACACCGC AACAAAGTCA 60  
 TGCCGCCTTT ATTACAACCG TGATCATTC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60  
 TGCCGCCTTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 189:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60  
 TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60  
TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60  
TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 105 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

CCCTYTGGTT TCTCTTGCTT TAGTAGGAGC ATTGRTTAGY RYCAIACCGC AACAAAGTCA 60  
 TGCCGCCTTT TTYACRACCG TGATCATTCC AGCCATTGTT GGRGG 105

(2) INFORMATION FOR SEQ ID NO: 193:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

CCCTATTATC TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60  
 TGCCGCCTTT TTCACAACCG TGTTCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 194:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
 AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120  
 CTAAACACTA GCACTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
 ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGTTTACG 240  
 ACCCGTGTTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300

CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
 TT 362

(2) INFORMATION FOR SEQ ID NO: 195:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
 AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120  
 CTAAACACTA GTGCTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
 ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGTTTACA 240  
 ACCCGTGTTT AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG 300  
 CACATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
 TT 362

(2) INFORMATION FOR SEQ ID NO: 196:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60

AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTAAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTAAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

GTGGATGCTC ATACAGCTTA TTTTAATGGT AATATTTATC TGGGAAAATC CACGAATTTA 60  
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120  
CTAAACACTA GCGCTTTGGA TTTCAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAACGT GAACATTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA 240  
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 199:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG 120  
CTAAACACTA GCACTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA 240  
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAGTCT 300  
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CTTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 200:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CTAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 201:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:

WC

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(2) INFORMATION FOR SEQ ID NO: 202:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid



(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 203:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300

CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
 TT 362

(2) INFORMATION FOR SEQ ID NO: 204:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA 60  
 AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG 120  
 CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
 ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA 240  
 ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300  
 CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
 TT 362

(2) INFORMATION FOR SEQ ID NO: 205:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA 60

AGAGTGAATG CCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 206:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 207:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTTGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 208:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAATGGT	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTT AGAGTTTTGG GCAATACACT ATTTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAATGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 209:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT GGTGTTACG	240
ACCCGTGTTT AGAGTTTGG ACAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 210:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:

GTGGATGCTC ATACAGCTAA CTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTA	60
AGGGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCTCTTTGGA TTTCAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240

ACCCGAGTTC AGAGTTTTGG GCAATACACT ATTTTTGGCG AAATTATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 211:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 212:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:

GTGGATGCCC ATACGGCTAA CTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTGAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 213:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAATGGT	120
CTAAACACTA GTGCTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG AGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 214:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACTAAGAG CGATAATGGT 120  
CTAAACACTA GCGCTTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC 180  
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACG 240  
ACCCGTGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

GTGGATGCTC ATACGGCTAA CTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA 60  
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG 120  
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA 240  
ACCCGTGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362



(2) INFORMATION FOR SEQ ID NO: 216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTT AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 217:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CTAGTAAGAG CGATAACGGG	120

CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTAAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTT AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 218:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

GTGGACGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTCAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTAAAA AACTTTGACG TTAAGGAATT GGTGGTTACA	240
ACCCGTGTTT AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 219:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG 120  
CTAAACACTA GCACTTTGGA TTTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC 180  
ACTACAGCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA 240  
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTA 60  
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG 120  
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA 240  
ACCCGTGTTT AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTTGGA TTTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGATTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AGAGTTTGG GCAATACTCT ATTTTGGCG AAAATATAGG CGATAAGTCG	300

CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 223:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

GTGGACGCTC ATACAGCTTA TTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTA 60

AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120

CTAAACACTA GCACTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180

ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACG 240

ACCCGTGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300

CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 224:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60

AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACATTA GCACTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 225:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTG	60
AGAGTGAATG GCCATAACGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCACTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG TGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATT TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTGAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACG	240
ACCCGTGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TGTCGCCCGG CCTGTTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

GGGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGYTTTGGA TTTTAGCGGC GTTACAGAYA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACRTTAAA AACTTTGAYA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATMAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCRG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 228:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACAAAGAG CGATAATGGT	120
ATAAACACTA GCACTTTGGA TTTGAGCGGC GTTACAGACA AGGTCAATAT CAACAAGCTC	180
ATTACAGCTT CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGTGTTT AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 229:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

GTGGATGCTC ATACGGCTAA CTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GCACCTTGGA TTTCACTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTAAA AACTTTGATA TTAAGGAATT GGTGGTTACA	240



ACCCGAGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCAG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 230:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:

GTGGATGCTC ATACGGCTAA CTTAATGGC AATATTTATT TGGGAAAATC CACGAATTTG	60
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTTGGA TTTTAGCGGC GTTACAGACA AAGTTAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCTG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 231:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
AGAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG 120  
CTAAACACTA CCACTTTGGA TTTCAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACA 240  
ACCCGAGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGCTG 300  
CACATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGGCTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA 60  
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CTAGTAAGAG CGATAACGGG 120  
CTAAACACTA GCGCTTTGGA TTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC 180  
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTTGACA TTAAGGAATT GGTGGTTACA 240  
ACCCGCGTTC AGAGTTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

ATGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACTAAGAG CGATAATGGT	120
CTAAACACTA GCGCTTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAAGTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTTATC TGGGAAAATC CACGAATTTA	60
AAAGTGAATG GCCATAGCGC TCATTTTAAA AATATTGATG CCACTAAGAG CGATAATGGT	120
CTATACACTA GCGCTTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT TAACACGCTC	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAAGTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

GTGGATGCCC ATACGATCAA TTTAATGGC AATATGTATT TGGGAAGATT TACGCATTTA	60
AAAGTGAATG GTCATACAGC CAATTTTAAA GATATTGATG CCAGCAAGGG TAGAAATGGT	120
ATCGACACCA CCATTTTGGG TTTTAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC	180
ACCACAGCTG CCACTAATGC GGCCATTAAA AATTTTGACA TTAAGGAATT GGTGTTACA	240
ACCAATGTTT TGAGTGTGGG GAAATACACT GATTTTACCG AAGATATAGG CGATCAATCC	300
CGCATTGGTA TCGTGCGTTT GCAAATGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

GTGGATGCCC ATACGATCAA TTTAATGGC AATATGTATT TGGGAAGATT CACGCATTTA	60
AAAGTGAATG GTCATACAGC CAATTTTAAA GATATTGATG CCAGCAAGGG TAGAAATGGT	120

ATCGACACCA CCATTTTGGG TTTTAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC	180
ACCACAGCTG CCACTAATGC GGCCATTAAA AATTTTGACA TTAAGGAATT GGTTGTTACA	240
ACCAATGTTT TGAGTGTGGG GAAATACACT GATTTTACCG AAGATATAGG CGATCAATCC	300
CGCATTGGTA TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 237:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

GTGGATGCCC ATACGATCAA TTTTAATGGC AACATGTATT TGGGAAGATT CACGCATTTA	60
AAAGTGAATG GCCATACAGC CAATTTTAAA GATATTGATG CCAGCAAGGG TAGAAATGGT	120
ATCGACACCA CTATTTTGGG TTTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTTGACA TTAAGGAATT GGTTGTTACA	240
ACCAATGTTT TGAGTGTGGG GAAATACACT GATTTTACCG AAGATATAGG CGATCAATCG	300
CACATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCCGG TCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 238:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG CTAAAACTT CAACATTAAT GAATTGATTG TTTAAACCAA TGGGGTGAGT	180
GTGGGGGAAT AACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAT CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTTAAAACTT CAACATTAAT GAATTGATTG TTTAAACCAA TGGTGTGAGT	180
GTGGGGGAAT AACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAT CTGGCACTAG GTCAATCTTT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTTAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGAAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAG CTGGCACTAG ATCAATCTTT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GCAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGCGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGCGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTA AAAACTT CAACATTAAT GAATTGGTTG TTAAGACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATCAC GGCTTCCACT	120
AATGTGGCCG TTA AAAACAA CAACATTAAT GAATTGGTGG TTA AAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CAGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO



(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAGATTAA TGGGGTGAGT	180
GTGGGGGAAT ACACTTATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTCA GTGGTGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGGTGG TTAAACCAA TGGTATAAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTCA GTGGTGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGGTGG TTTAAACCAA TGGTATAAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

GTGGATGCCC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTCA GTGGCGTTAC AAACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGGTGG TTTAAACCAA TGGTATAAGC	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTA AAAACTT CAACATTAAT GAATTGATTG TTA AAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGA AA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG CTAAAACTT CAACATTAAT GAATTGATTG TTA AAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGA AA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGGAAT AACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATTAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGGAAT AACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:

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GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC      60
TTAGATTTTA GTGGTGTGAC AGGTATAGTC AATATCAACA AGCTCATCAC AGCTTCCACT      120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC      180
GTGGGGGAAT AACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG      240
CGTTTGGAAG CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT      288
```

(2) INFORMATION FOR SEQ ID NO: 253:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

```
GTGGATGGTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC      60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATAAC GGCTTCCACT      120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT      180
GTGGGGGAAT AACTTATTT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG      240
CGTTTGGAAG CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT      288
```

(2) INFORMATION FOR SEQ ID NO: 254:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTTAAACCAA TGGTGTGAGT	180
GTGGGGGAAT ACACTTATTT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 255:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGACAAAGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTTAAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAG CTGGCACCAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGACAAAGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTTAAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 257:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGGTTG TTTAAACCAA TGGGGTAAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCA TAAAAACTT CAACATTAAT GAATTGATTG TAAAAACCA TGGGATGAGC	180
GTGGGGGAAT AACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 259:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TAAAAACTT CAACATTAAT GAATTGATTG TAAAAACCA TGGGGTGAGC	180
GTGGGGGAAT AACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 260:

(i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC	180
GTGGGGGAAT AACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 261:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTGGATTTTA GTGGCGTTAC AGACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGGAAT AACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 262:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 263:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTAGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

GTGGATGGTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCCACACC	60
TTAGATTTTA GTGGTGTTAC AGGTAAGGTC CATATCCACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAACTT CCACATTAAT GAATTGATTG GTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAT CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGTTGG TTTAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAT CTGGCACCAG GTCAATCTAT TTTGGGGGTG TTAAATTA	288

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

CGGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:

CGGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCACAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:

GCGAGACGTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAGT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGGAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAG CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:

GTGGATGCCC ATACGGTCAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTCA GTGGTGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGGAAT AACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240

CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT

288

(2) INFORMATION FOR SEQ ID NO: 270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AACTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACCAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AACTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240

CGTTTAGAAA CTGGCACCAG GTCAATCTAT TCTGGGGGTG TTAAGTTT

288

(2) INFORMATION FOR SEQ ID NO: 272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAATACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180

GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG 240  
CGTTTGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT 288

(2) INFORMATION FOR SEQ ID NO: 274:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC 60  
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT 120  
AATGTGGCCG TTAAAACTT CAACATTAAT GAATTGTTGG TAAAACCAA TGGGATAAGT 180  
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG 240  
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAATTT 288

(2) INFORMATION FOR SEQ ID NO: 275:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAATACC 60  
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT 120  
AATGTGGCCA TAAAAATTT CAACATTAAT GAATTGTTGG TAAAACCAA TGGGATAAGT 180



GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG 240  
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT 288

(2) INFORMATION FOR SEQ ID NO: 276:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:

ACGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC 60  
TTAGACTTTA GTGGTGTTAC AAACAAGGTC AACATCAACA AGCTCATTAC AGCTTCCACT 120  
AATGTGGCCA TTAAAACTT CAACATTAAT GAGTTGTTGG TTAAAACCAA TGGGATAAGT 180  
GTGGGGGAAT AACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG 240  
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT 288

(2) INFORMATION FOR SEQ ID NO: 277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:

ATGGAAATAC AACAAACACA C 21

(2) INFORMATION FOR SEQ ID NO: 278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:

CTGCTTGAAT GCGCCAAAC

19

(2) INFORMATION FOR SEQ ID NO: 279:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 21 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:

CACAGCCACT TTCAATAACG A

21

(2) INFORMATION FOR SEQ ID NO: 280:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:

CGTCAAAATA ATTCCAAGG

20